



Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

May 2003

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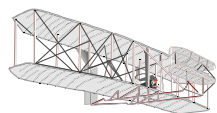
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**Centennial of Flight
Commission
Website**

www.centennialofflight.gov

**How will your school, class,
or organization be
celebrating the
Centennial of Flight?**

Send us a note and
we'll include your ideas
in future newsletters.

2003 Virginia Aviation Art Contest Winners

Students from across the Commonwealth of Virginia contributed artwork to the International Aviation Art Contest. The theme for 2003 was "100 Years of Powered Flight." The artwork of the students below will now be judged in the United States national competition. Winners in the national contest will compete at the international level.

Virginia Contest Winners (Category I, Ages 6-9)

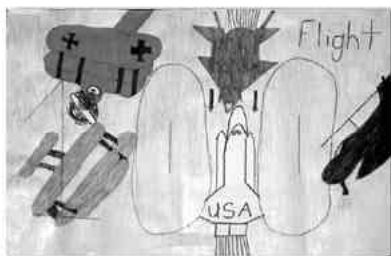
First Place, Category I

Robert F. Burke
Annandale, Virginia



Second Place, Category I

John Tyler Forrest
Mineral, Virginia



Third Place, Category I

Drew Douglas
Montclair, Virginia



Cont'd on Page 3

PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Education (OEd) is working in collaboration with the Virginia Department of Aviation which is an excellent way to maintain two-way communication between federal and state aviation education concerns.

NASA has changed its Mission Statement to the following "To understand and protect our home planet. To explore the universe and search for life. To inspire the next generation of explorers . . . as only NASA can. NASA has introduced a new program called Educator Astronaut Program.. It is accessible at <http://edspace.nasa.gov> .

"We are trying to help folks become more literate on the use and benefits of the Internet. There is a great deal of interest being generated with the advent of the Commemoration of 100 years of Powered Flight, during 2003. Along these lines I suggest that you access the following sites for some great ideas:

U. S. Centennial of Flight Commission
Festival of Flight
World Flight 2003
Inventing Flight: The Centennial Celebration
AirVenture 2003

www.centennialofflight.gov
www.festivalofflight.com
www.worldflight2003.com
www.inventingflight.com
www.airventure.org

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Aerospace Education Programs Manager
Office of Education
NASA Langley Research Center
<http://edu.larc.nasa.gov/>



VASEF AVIATION EDUCATION NEWS is published quarterly in support of aviation education in the Commonwealth of Virginia by the Virginia Department of Aviation.

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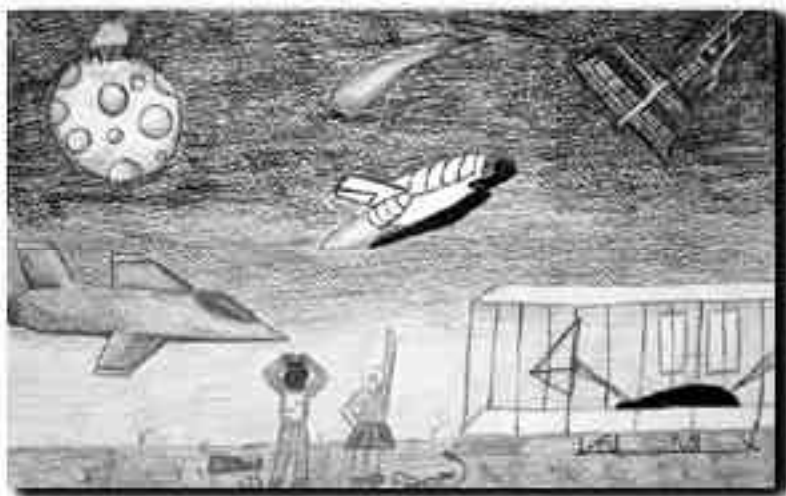


VASEF PURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

Virginia Aviation Art Contest Winners

(Category II, Ages 10-13)



First Place, Category II

Heather Burke
Annandale, Virginia

Second Place, Category II

Na'Quesha Mason
Smithfield, Virginia



Third Place, Category II

Quaneisha Bailey
Smithfield, Virginia



Virginia Aviation Art Contest Winners (Category III, Ages 14-17)



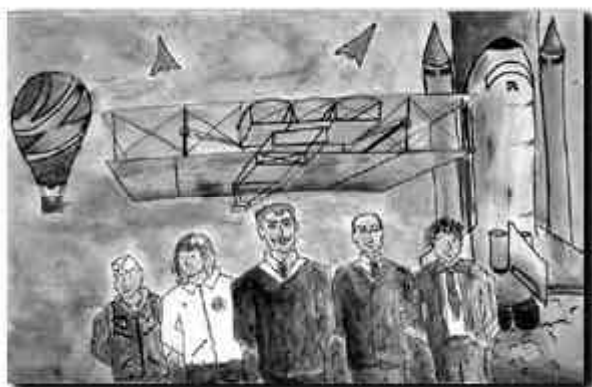
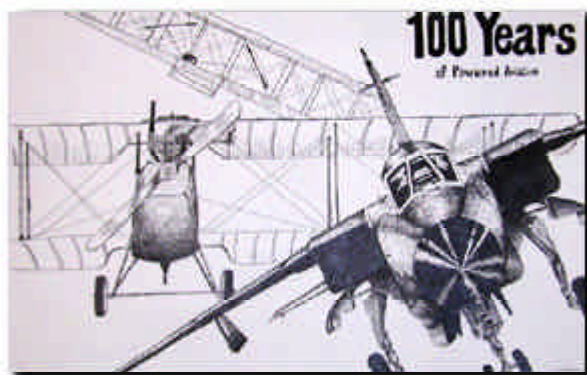
The Judges - Thanks to Christopher Jones, Bill Kluge, and Luther Gore of the American Society of Aviation Artists (ASAA) for serving as our contest judges.

First Place, Category III

Russell Perkins
Norfolk, Virginia

Second Place Category III

Emilie Stump
Virginia Beach,
Virginia



Third Place Category III

**Nathan Charles
Ecarma**
Quantico, Virginia

National Air and Space Museum Calendar

Exploring Space Lecture Series **Mars Revealed**

Mars is currently the target of one of the most active space exploration programs in history. This year's *Exploring Space Lecture Series*, titled *Mars Revealed*, will delve into the latest ideas in Mars science and our ever-evolving understanding of the planet. Distinguished speakers on the forefront of planetary science will bring Mars into focus and share a new view of this intriguing planet.

April 10, 2003

"Mars In A New Light"
Phil Christensen

May 7, 2003

"The 2003 Mars Exploration Rovers"
John Grant

June 6, 2003

"Lessons from Mars for Life on Earth"
D. E. Brownlee

Lectures are free but tickets are required. Tickets are available at the Lockheed Martin IMAX Theater box office. Tickets can also be obtained through Tickets.com by calling (800) 529-2440 or visiting their web site at www.tickets.com. There is a small service fee on all Tickets.com orders.

For more information visit:
www.nasm.si.edu.

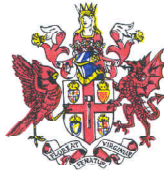
Opening in December 2003:

National Air and Space Museum Steven F. Udvar-Hazy Center

Located at the Washington Dulles International Airport, the Udvar-Hazy Center will house 200 aircraft and 135 large space artifacts including the Space Shuttle Enterprise, SR-71 Blackbird, and B-29 Superfortress Enola Gay.

For more information visit:
www.nasm.si.edu/udvarhazycenter

The General Assembly recently passed a resolution designating 2003 as Aviation Centennial Year in Virginia. The text of that resolution is shown below.



Senate of Virginia

SENATE JOINT RESOLUTION

Designating 2003 as Aviation Centennial Year in Virginia

WHEREAS, 2003 is the 100th anniversary of the first powered flight, which was accomplished by Orville and Wilbur Wright on December 17, 1903, in Kitty Hawk, North Carolina; and

WHEREAS, in honor of this centennial, the 105th Congress of the United States has declared 2003 the Aviation Centennial Year in America; and

WHEREAS, the Commonwealth is home to the NASA Langley Research Center in Hampton, which since 1917 has been the site of much of the aviation research and development in the United States and is thus the birthplace of many aeronautical advances enjoyed throughout the world; and

WHEREAS, aviation, in the Commonwealth is a critical component of the transportation network of Virginia, allowing citizens and commerce unparalleled safe and convenient access, both nationally and globally, through its nine commercial service airports and 58 general aviation airports; and

WHEREAS, the Commonwealth is home to the first military flight at Fort Myer in 1909, and Virginia possesses -10 active military airfields that routinely have played a major role in helping preserve the nation's freedoms; and

WHEREAS, aviation activity, through the movement of people and goods on scheduled and non-scheduled aircraft, provides directly and indirectly for a significant annual economic impact that exceeds \$20 billion a year in Virginia; and

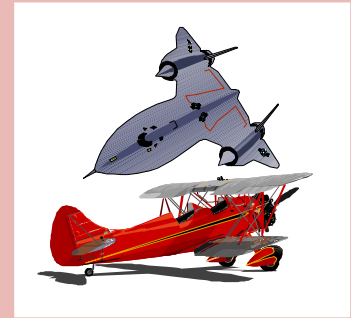
WHEREAS, aviation is vital for the health, safety and welfare of Virginia by providing such specific benefits as emergency medical services, law enforcement, agricultural production, environmental protection, search and rescue, and disaster relief; and

WHEREAS, the Smithsonian Institution's Udvar-Hazy Center at Dulles International Airport will open on December 17, 2003, becoming the largest and most comprehensive aviation museum in the world, adding to an already impressive list of recognized aviation museums in Virginia; now therefore, be it

RESOLVED by the Senate, the House of Delegates concurring, That the General Assembly designate 2003 as Aviation Centennial Year in Virginia and encourage all citizens and organizations in the Commonwealth to join together in celebration of the great achievements and cultural improvements to mankind brought about by the advancement and utilization of aviation during the past 100 years; and, be it

RESOLVED FURTHER, that the General Assembly endorse continued advancement and enhancement of aviation through infrastructure development and aeronautical research, so that citizens of the Commonwealth may in the future enjoy greater levels of prosperity from aviation advancement and utilization; and, be it

RESOLVED FINALLY, That the Clerk of the Senate post the designation of 2003 as Aviation Centennial Year in Virginia on the General Assembly's website.



VIRGINIA AVIATION MUSEUM CALENDAR

Spring Break Activities

April 16	Kite Day
April 17	Rocket Day
April 18	Boomerang Day

2 p.m. Free with museum admission.
Hands-on activities for the whole family.

April 21, 2003

Virginia Aviation Safety Week

Presentation by Rod Machado. For 25 years he has been speaking to audiences all over the United States and Europe. By using humor and pertinent stories he makes learning about aviation safety fun. He has produced and authored videos, audiotapes and books including Rod Machado's Private Pilot Handbook and workbook. Sponsors include the Virginia Department of Aviation and the Richmond FSDO (FAA).
7:00 - 9:00 p.m.

May 2003

VAHS Annual Meeting and reception. For reservations or additional information please call (804) 222-8690 and leave a detailed message.

June 14, 2003

Air Fair

A fun-filled day, with static aircraft and remote-control displays, air pressure demonstrations, Carpenter Science Theater productions and fun activities for the whole family.
9:30 a.m. - 5:00 p.m.

For further information on events and schedules, call (804) 236-3622.

Aviation Education Corner

Making Time to Fly (An Aviation Time Line)

Objectives The students will:
 Identify and research aviation events.
 Create a time line of aviation events.
 Analyze the information to interpret changes in aviation.
 Develop a presentation based on historical events in aviation.

Standards and Skills Science
 Science in Personal and Social Perspectives
 History and Nature of Science

Science Process Skills
 Communicating
 Investigating
 Collecting Data

Mathematics
 Problem Solving
 Communication

Background Each event in a time line can be thought of as a link to the past or future of something. Building an aviation time line based on drawings or models helps students visualize the numerous changes that have occurred in the history of aviation.

The changes in aviation offer important clues to help students not only understand the concept of advancement and improvement, but also the reasons behind the changes.

In 1783 the balloon became the first human-made device capable of lifting humans into the air. It allowed humans to fly, but balloons drift with the wind, and the speed and destination of each flight depended largely upon the weather. The limitations of ballooning inspired people to develop new technologies to expand the realm of flight. Change was inevitable. Propulsion was added to the balloon to help control its flight path, increase its speed, and make it move against the wind.

When powered, controlled flight became possible with the Wright Flyer airplane in 1903, changes in aviation happened at a quick rate. Many of the changes were driven by aviators' desire to fly higher, faster, and farther. Some changes occurred to satisfy specific, practical requirements: the flying boat permitted flight operations from bodies of water, and the helicopter could takeoff and land practical anywhere. Navigation instrumentation allowed for flights in adverse weather and darkness.

Other changes occurred to satisfy the human spirit. Advanced gliders allowed people to soar with the birds, and acrobatic airplanes allowed pilots to dance in the sky.

Creating a time line requires students to find out all they can about an event. Research information for a time line can be obtained from any sources. Books, magazines, newspapers, and people are a few examples. A vast amount of information is also available on the Internet.

Management The amount of time required for this lesson will be primarily determined by how much time the students are assigned for research. Students may work individually, in pairs, or small groups.

Activity 1. Show students a picture of a modern airliner that can be found in a magazine or book. Ask them if this is the type of plane in which people have always flown.
 2. Review what a time line is and why it is an important way of displaying information.
 3. Explain to the students that they are going to research aviation events and create a time line that shows important people and changes in aviation. Each student or pair of students should find out all they can about an event and be able to draw a picture of it.

4. Once students have completed their research, they can decide how the event will be displayed in the time line. Students can design cards for the time line or build a paper model. Other ways to display the event include magazine cutouts, pictures, and models made from recycled or "throw away" items found around their home.

5. Bring all items together to form a class time line. The time line can be hung from the ceiling, attached to a wall or put on a shelf or table. Ask each student to present and position his or her event on the time line.

Discussion 1. How important was the event you researched to changes in aviation?
 2. If a particular time line event had never occurred, how do you think this might have changed aviation history?
 3. How did the time line that the class created help you to learn about aviation history?

Assessment Students will successfully meet the objectives of this lesson by researching an aviation event and creating their part of the time line.

Extensions 1. Have students predict what future events and designs in aviation might look like. Draw pictures and write about it.
 2. Using the information gathered in the students' research, have them write a report or story about their event.
 3. Have students pretend they are one of the aviation characters that they researched. Groups of students can role-play the characters in skits or plays.



Lecture Series Celebrates the Centennial of Flight at the Virginia Air & Space Center

The Virginia Air & Space Center will celebrate 100 years of man's first flight with the Centennial of Flight Lecture series. This extensive series explores aviation from the Wright Brothers to the future of air travel. Visitors can experience the history of aviation through the eyes of those who have taken it to a whole new level. Lectures are as follows:

Colonel Jay Welsh presents *Langley Field: The Early Years*

June 4, 2003 - 7 p.m.

Retired Air Force Colonel Jay Welsh considers himself a lucky man. He has spent the last 40 years, 30 of them in an Air Force uniform, working with people who he says "every day make possible the world's best Air Force." Colonel Welsh served two tours and 11 active duty years at Langley Air Force Base. As America's oldest continuously active military airfield, it is the one place he says, "where much of military aviation history was made." Colonel Welsh will share the base's history and its relationship to the growth of American airpower touching on Langley's "pre-history," and its early years. Using historical footage and personal interviews, he chronicles the accomplishments of four World War II Peninsula aviators.

Jim Slade presents *One Hundred Years of Flying*

August 13, 2003 - 7 p.m.

As a journalist and pilot, Jim Slade has witnessed some of the truly pivotal events of this century. Mr. Slade, who has dealt personally with the astronauts, engineers, and scientists who made it happen, describes the Apollo moon-landing program as 'prime-turn' in human evolution and he shows you why. Mr. Slade talks in depth about personal experiences in the search for Amelia Earhart, Lindbergh's *Spirit of St. Louis*, the Wright Brothers and what you've never heard before.

David Garrigus presents *Kitty Hawk: The Making of a Documentary*

October 1, 2003 - 7 p.m.

A critically acclaimed producer, writer and director of documentaries and educational programs, for more than three years David Garrigus has focused on the production of *Kitty Hawk* in order to create the definitive documentary on the Wright Brothers' invention of the airplane. Drawn to the epic story of struggle, hardship, and ultimate triumph, Garrigus feels that the Wright Brothers' journey is an important narrative to preserve as part of our national heritage.

Tom Crouch presents *Inventing Flight: The Science of Balloons, the Technology of Wings*

November 5, 2003 - 7 p.m.

The National Air and Space Museum's Dr. Tom Crouch captivates audiences with an interesting, informative, and fun talk about the most famous and misunderstood inventors of flight -- Orville and Wilbur Wright. He will discuss the unique combination of talents and qualities that enable Wilbur and Orville Wright to become the first people to successfully complete the quest for flight. Dr. Crouch will examine their historic flight from personal, professional, and engineering perspectives to reveal how the Wrights found themselves on the doorstep of history on December 17, 1903.

Betty Geiger-Darst presents a personal account *First Family of Aviation - The Wrights*

December 3, 2003 - 7 p.m.

Betty Darst, as Katharine Wright, presents a living biography. She provides audiences with a rich historical cameo of Wilbur and Orville Wright's sister. Darst greets her audience in a copy of a 1909 Homecoming suit worn by Katharine Wright as she greeted her brothers' return from Europe. Darst not only meets her audience in the persona of Katharine, she proceeds to share a remarkably personal account of the First Family of Aviation.

The Centennial of Flight Lecture series is presented by NASA Langley Research Center, Virginia Space Grant Consortium and the Virginia Air & Space Center. Admission is free and open to the public.

For more information call (757) 727-0900 or visit the Virginia Air & Space Center website at www.vasc.org.

SCIENCE MUSEUM OF VIRGINIA CALENDAR

EXHIBITIONS

Mary Morton Parsons Earth-Moon Sculpture (kugel) - Permanent

CARPENTER SCIENCE THEATER COMPANY

"That Ol' Windbag" thru May 15

MAX FILMS

Jane Goodall's Wild Chimpanzees - thru June 13
Lewis & Clark: Great Journey West - thru Sept. 19

MULTIMEDIA SHOWS

Dark Matter - thru June 15

LIVESKY: Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

SKYWATCH: Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000

Box Office: (804) 367-1080

24-Hour Skywatch Information: (804) 367-8277

24-Hour TDD Information: (804) 367-9760

General Information - TDD: (804) 367-6552

Group Scheduling: (804) 367-6552

Home Page: <http://www.smv.org>

VIRGINIA AIR AND SPACE CENTER CALENDAR

EXHIBITS:

1903 Wright Flyer
The Wright Brothers' Propeller Exhibit
New Aviation Gallery opening Fall 2003

IMAX FILMS:

Helicopters in Action - thru Aug. 2003

CENTENNIAL OF FLIGHT LECTURE SERIES:

Langley Field: The Early Years

Colonel Jay Welsh

June 4, 2003 - 7:00 p.m.

One Hundred Years of Flying

Jim Slade

August 13, 2003, 7:00 p.m.

Call (804) 727-0900 for showtimes

Visit the Center's Home Page:

<http://www.vasc.org>

Visit the Teacher Resource Center Home

Page: <http://seastar.vasc.mus.va.us>

Calendar of Events

May 3-4, 2003

Southside Sky-Fest Air, Car, & Boat Show will be held at the Danville Regional Airport from 6:00 a.m. - 8:00 p.m. each day. For more information visit www.ci.danville.va.us/trans/airport/airshow.htm.

May 14-18, 2003

Celebration of Flight will be held at Lumberton Municipal Airport in Lumberton, NC. For more information visit www.celebrationofflightnc.com.

May 16-26, 2003

Festival of Flight will be held in Fayetteville, NC. For more information visit www.festivalofflight.org.

May 17, 2003

Community Day at Franklin Municipal Airport. For more information contact Jimmy Gray, Manager, at (757) 562-8764.

May 17-18, 2003

EAA Chapter 186 Spring 2003 Fly-In will be held at the Winchester Regional Airport. For more information contact Tangy Mooney at (703) 361-0294 or visit www.eaa186.org.

July 3-July 20, 2003

Inventing Flight - Celebration Central at Deeds Point will be held in Dayton, Ohio. For more information visit www.inventingflight.com.

For more events visit: <http://www.doav.state.va.us/calendar.htm>.

Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.

_____ Regular Membership \$25.00 annually (July - Dec. \$12.50)

_____ Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)

_____ Corporate Membership \$100.00 annually (July - Dec. \$50.00)

_____ New Member _____ Renewal

Date: _____

Name: _____

Name of Organization: _____

Occupation: _____

Address: _____

City: _____ State _____ Zip _____

Telephone _____

Please Return to: Tom Tyndall, VASEF Treasurer
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Contest Winners**

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Centennial Year in Virginia**



Please Post for Teachers